

Summer Assignment Part 0 Review

Date _____

Find the value of x or y so that the line through the points has the given slope.

1) $(x, -9)$ and $(-8, 4)$; slope: $-\frac{13}{10}$

2) $(x, 9)$ and $(-1, 4)$; slope: $\frac{5}{3}$

3) $(-3, 8)$ and $(6, y)$; slope: $-\frac{14}{9}$

4) $(4, y)$ and $(5, -4)$; slope: 3

5) $(1\frac{1}{8}, y)$ and $(\frac{1}{2}, \frac{5}{3})$; slope: $-\frac{2}{3}$

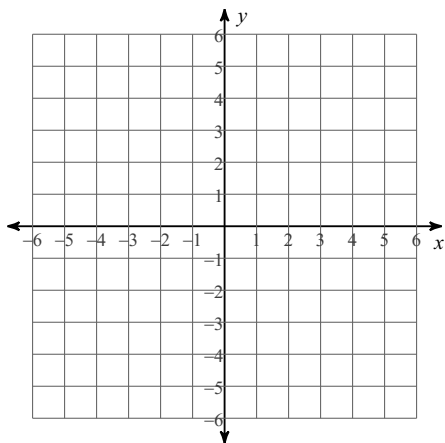
6) $(-1\frac{5}{6}, 3\frac{3}{5})$ and $(x, -3\frac{1}{6})$; slope: undefined

7) $(x, -\frac{8}{9})$ and $(-\frac{2}{3}, \frac{1}{2})$; slope: $\frac{25}{3}$

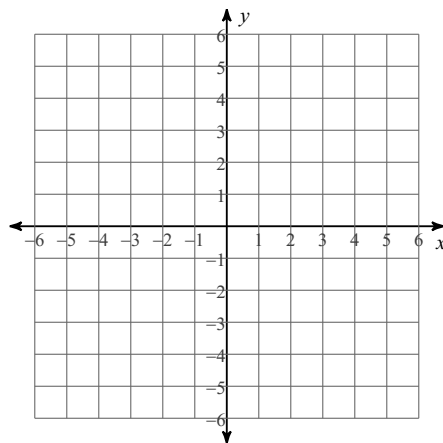
8) $(-9, y)$ and $(-3\frac{3}{4}, 6)$; slope: $\frac{4}{3}$

Sketch the graph of each line.

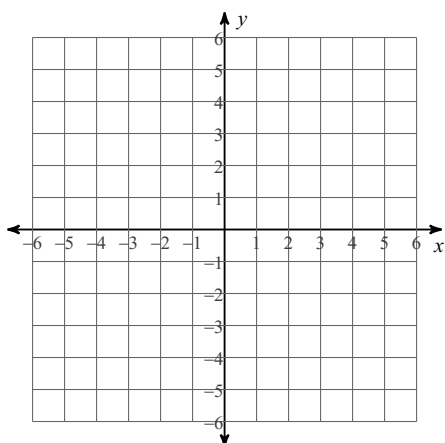
9) $x = 1$



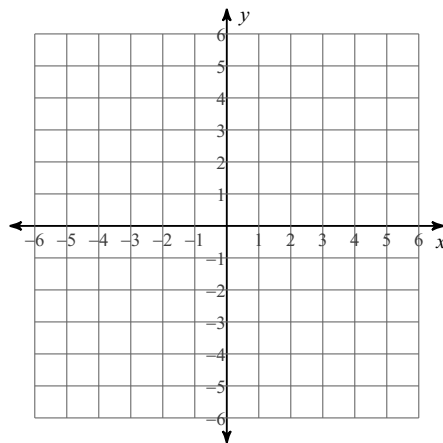
10) $x + 2y = 10$



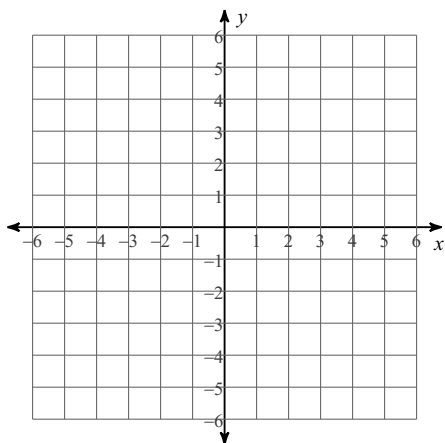
11) $y = -\frac{6}{5}x - 2$



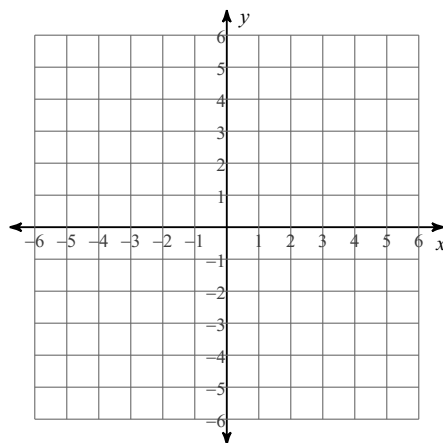
12) $y = -x - 1$



13) $-2y + 2x = 0$



14) $-25 + 2x = 5y$



Write the point-slope form of the equation of each line given the slope and y-intercept.

15) Slope = -4 , y-intercept = -4

16) Slope = $-\frac{3}{5}$, y-intercept = 0

Write the point-slope form of the equation of the line through the given point with the given slope.

17) through: $(1, -2)$, slope = -2

18) through: $(-1, 5)$, slope = -9

Write the point-slope form of the equation of the line through the given points.

19) through: $(1, 5)$ and $(5, 2)$

20) through: $(-4, 5)$ and $(0, 1)$

Write the point-slope form of the equation of the line described.

21) through: $(-5, 3)$, parallel to $y = -\frac{1}{5}x$

22) through: $(-1, 5)$, parallel to $y = -4x$

23) through: $(-5, 1)$, perp. to $y = \frac{8}{3}x - 5$

24) through: $(-5, 5)$, perp. to $y = \frac{5}{8}x - 5$

Answers to Summer Assignment Part 0 Review (ID: 2)

1) 2

2) 2

3) -6

4) -7

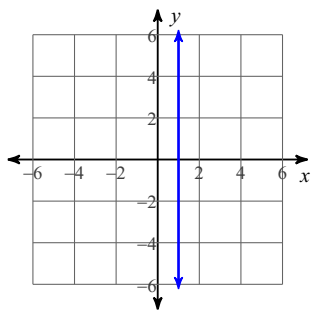
5) $\frac{5}{4}$

6) $-1\frac{5}{6}$

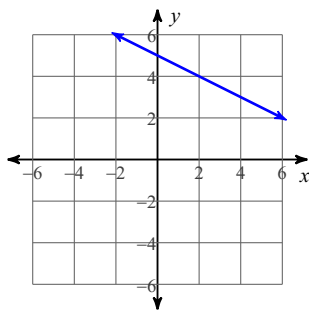
7) $-\frac{5}{6}$

8) -1

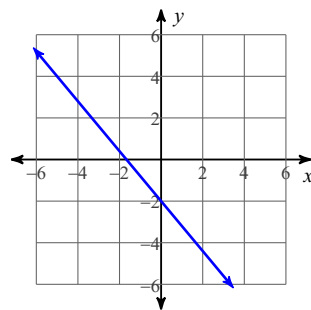
9)



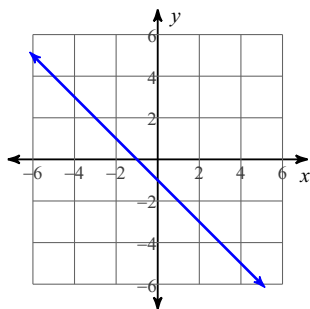
10)



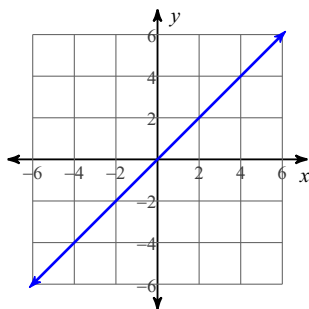
11)



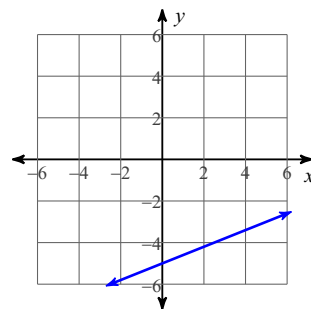
12)



13)



14)



15) $y + 4 = -4x$

16) $y = -\frac{3}{5}x$

17) $y + 2 = -2(x - 1)$

18) $y - 5 = -9(x + 1)$

19) $y - 5 = -\frac{3}{4}(x - 1)$

20) $y - 5 = -(x + 4)$

21) $y - 3 = -\frac{1}{5}(x + 5)$

22) $y - 5 = -4(x + 1)$

23) $y - 1 = -\frac{3}{8}(x + 5)$

24) $y - 5 = -\frac{8}{5}(x + 5)$